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(54) **VACUUM BANDAGE PACKING**

VAKUUMBINDENVERPACKUNG

EMBALLAGE DE PANSEMENT SOUS VIDE

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(73) Proprietor: **Hill-Rom Services, Inc.  
Batesville, IN 47006-9167 (US)**

(72) Inventors:  
• **LOCKWOOD, Jeffrey, S.  
Batesville, IN 47006 (US)**

• **PETROSENKO, Robert  
Batesville, IN 47006 (US)**

(74) Representative: **Findlay, Alice Rosemary et al  
Reddie & Grose  
16 Theobalds Road  
London  
WC1X 8PL (GB)**

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## Description

[0001] The present disclosure relates to packing for placement over a chronic wound, and particularly to packing for use with a vacuum bandage coupled to a vacuum source. A vacuum bandage according to the preamble of claim 1 is described for example in US 2001/0043943.

[0002] Gauze or commercially available foam packing is typically used to pack a wound. One example is the ALLEVYN® Cavity Wound Dressing available from Smith & Nephew. This particular wound dressing is made of a polyurethane foam. Gauze is often used to absorb liquid and exudate present on the wound surface.

## SUMMARY OF THE INVENTION

[0003] The present invention comprises one or more of the following features or combinations thereof:

[0004] A bandage for use with a wound and a vacuum source is provided. The bandage comprises a wound dressing member having a wound contacting surface and a port configured for communication with the vacuum source. The member further includes holes formed in the wound contacting surface and configured for communication with a wound surface of the wound. The member includes a passageway between the port and each hole. The combination may further include a pack coupled to the top surface of the member. The pack may illustratively include an aperture positioned about the port of the member. A connector of the member may be received within the aperture.

[0005] In illustrative embodiments, the pack further includes a bottom surface, a top surface, a side wall extending from the top surface to the bottom surface, and a slit in communication with the aperture. The slit is defined by first and second confronting interior surfaces which each extend from the top surface of the pack to the bottom surface and from the aperture to the side wall. The illustrative pack further includes an adhesive layer coupled to the bottom surface of the pack for coupling the pack to the top surface of the member. The pack may be made of either open-celled or closed-cell foam.

[0006] The member may be generally non-compressible and made of a medical grade silicone. The member may further include a connector coupled to the top surface of the member. Such a connector may be received within the aperture of the pack and configured for communication with the port of the member and the vacuum source.

[0007] Other features of the disclosure will become apparent to those skilled in the art upon consideration of the following detailed description of the preferred embodiments exemplifying the best mode of carrying out the disclosure as presently perceived.

## BRIEF DESCRIPTION OF THE DRAWINGS

[0008] The detailed description particularly refers to the accompanying figures in which:

Fig. 1 is a part perspective, part diagrammatic view of a wound care bandage showing the wound care bandage located on the leg of a patient and coupled to both a vacuum and an irrigation source through the use of a switch valve;

Fig. 2 is an exploded perspective view of the wound care bandage of Fig. 1 showing the bandage positioned above a wound bed and including a wound contacting layer and a cover which cooperate to form a wound dressing member for placement within the wound bed, and also showing a foam packing for placement adjacent the cover and a sealing film to cover the foam packing and member to seal about the wound;

Fig. 3 is a perspective view of the foam packing of the bandage showing the packing having a central aperture and a slit in communication with the aperture and further showing the packing having an adhesive bottom surface for coupling with a top surface of the cover;

Fig. 4 is a sectional view of the bandage showing the member adjacent the wound, the packing adjacent the cover of the member, and a vacuum tube received within the aperture of the packing for coupling with the cover of the member, and further showing the sealing film positioned over the packing and tube to seal to the patient's healthy skin about the wound;

Fig. 5 is a perspective view showing the foam packing of the bandage, the cover of the member, and a horizontal connector of the member coupled to the member to be received within the aperture of the foam packing; and

Fig. 6 is a perspective view showing the foam packing adjacent to the bandage and further showing the horizontal connector of the member received within the aperture of the packing and showing the vacuum tube coupled to the connector and received within the slit of the packing.

## DETAILED DESCRIPTION OF THE DRAWINGS

[0009] A wound care bandage 10 is provided for use with a vacuum and irrigation source 12, 14, respectively, as shown in Fig. 1. An illustrative vacuum and irrigation source 12, 14 is disclosed in U.S. Patent Publication No. US 2002/0161317 A1 and U.S. Patent No. 6,458,109, both of which are owned by the assignee of the present application.

[0010] Bandage 10 promotes the healing of a large wound 16 (shown in Figs. 1 and 4) by providing vacuum therapy to the wound 16 to promote blood flow and remove exudate from a wound surface 18 of the wound

and by providing for irrigation of the wound 16 with fluids such as saline, for example.

[0011] As shown in Fig. 2, wound care bandage 10 comprises a thin, flexible wound dressing member 19. Illustrative wound dressing members are disclosed in U.S. Patent Publication No. US 2002/0082567 A1, which is owned by the assignee of this present application.

[0012] Bandage 10 also includes a foam packing 30 above and adjacent member 19, as shown in Figs. 2 and 4. Packing 30 rests on member 19 and includes an aperture 32 for receiving a vacuum tube 34. As shown in Fig. 4, one end of vacuum tube 34 is coupled to member 19 and, as shown in Fig. 1, the other end of tube 34 is coupled to vacuum source 12 and/or irrigation source 14. Bandage 10 further includes a film 40 that is placed over member 19, packing 30, and tube 34 and that attaches to a patient's healthy skin 42 around wound 16. Packing 30 occupies a space between film 40 of bandage 10 and member 19.

[0013] Member 19, of bandage 10, is made of a medical grade silicone or other type of elastomer which is pliable. Two companies, for example, which manufacture such medical grade silicone are GE Silicones and NuSil Technology. It is within the scope of this disclosure, however, to include a wound dressing member made of any type of thin, flexible material that is non-porous and non-foam-like. This thin, flexible material is also generally non-absorptive. For example, materials such as polyvinylchloride (PVC), PVC free of diethylnhexylphthalates (DEHP-free PVC), polyurethane, or polyethylene may be used in the manufacture of member 19.

[0014] Further, member 19 may be molded to include anti-microbial constituents. For example, it is within the scope of this disclosure to impregnate member 19 with silver ions which are known anti-microbials. Member 19 is also made of a generally non-adhesive material. Therefore, member 19 does not adhere to the wound surface 18. Further, member 19 is solid in nature and generally non-compressible. For example, when a negative pressure is applied to member 19, a thickness 20 of member 19, as shown in Fig. 4, remains relatively constant. Further, member 19 is generally transparent to enable a caregiver to be able to see the wound 16 through member 19 when member 19 is placed adjacent to wound surface 18. This transparency allows the caregiver to view the progress of the healing of the wound 16. Although packing 30 is placed over member 19, thus preventing a caregiver from viewing the wound surface 18, packing 30 is removable and replaceable without the need to remove member 19 from wound surface 18, as is described below. Therefore, the progress of the healing of wound 16 is viewable through member 19 when the caregiver has removed packing 30 from member 19 to replace with a new packing 30.

[0015] As shown in Fig. 2, wound dressing member 19 is illustratively rectangular in shape. However, it is within the scope of this disclosure for member 19 to be any suitable shape. Further, member 19 may be cut to fit any

size wound 16. Member 19 includes the combination of a wound contacting layer 22 and a cover 24. Member 19 also includes a connector 26 coupled to cover 24 for communication with vacuum source 12 and/or irrigation source 14. It is also within the scope of this disclosure for connector 26 to be formed integrally with cover 24 or to be a separate piece that is attached to cover 24.

[0016] Layer 22 includes a wound contacting surface 50 and an upper or opposite surface 52. Wound contacting surface 50, or portions thereof, contacts and generally conforms to the wound surface 18. Opposite surface 52 includes a central area 54 and a plurality of channels 56 which extend radially away from central area 54, as shown in Fig. 2. Central area 54 is recessed relative to the portions of upper surface 52 between channels 56. As shown in Figs. 2 and 4, channels 56 are open at the sides and ends of member 19. Opposite surface 52 further includes concentric channels 58. Central area 54 is provided to communicate with vacuum source 12 and irrigation source 14 through a port 60 of cover 24, as described below.

[0017] A plurality of radially extending protrusions or bosses 62 are positioned around central area 54. Bosses 62 are positioned between central area 54 and channels 56, 58, as shown in Fig. 2. Bosses 62 prevent central area 54 from collapsing in on port 60 of cover 24 and forming an unwanted seal which would effectively block air flow through port 60 while suction is applied to bandage 10. Port 60 communicates with the vacuum source 12 and/or the irrigation source 14 via connector 26 and tube 34, as shown in Fig. 2. As mentioned above, port 60 is in communication with central area 54 of layer 22.

[0018] Illustratively, four bosses 62 are shown in Fig. 2. However, it is within the scope of this disclosure to provide any number of bosses 62 or the like about central area 54 of layer 22 to prevent central area 54 from sealing off port 60 of cover 24 as suction is applied to bandage 10. Further, it is within the scope of this disclosure to include a boss or bosses 62 having any shape that prevents central area 54 from sealing off port 60 when suction is applied to bandage 10.

[0019] Connector 26, as shown in Figs. 2 and 3, is a tubal port coupled to a top surface 70 of cover 24 and in communication with port 60 of cover 24. As mentioned before, it is within the scope of this disclosure for connector 26 to be a separate component of member 19 which is coupled to cover 24 or for connector 26 to be molded integrally with cover 24. Connector 26 includes a vertical passageway 27. Connector 26 connects with tube 34 to provide a vertical tube attachment with respect to port 60. Vertical connector 26 is received within aperture 32 of packing 30. As mentioned above, however, it is within the scope of this disclosure to include a member 19 having only layer 22 and cover 24, without a connector 26, for example. In such an example, tube 34 couples directly to cover 24 for direct communication with port 60. Cover 24 includes a bottom surface 68 and top surface 70, as shown in Fig. 2. Bottom surface 68 engages

opposite surface 52 of layer 22, as shown in Fig. 4.

[0020] In some embodiments, member 19 is made by heat sealing opposite surface 52 of layer 22 and bottom surface 68 of cover 24 together and by heat sealing connector 26 to top surface 70 of cover 24. Each of connector 26, cover 24 (or the combination of cover 24 and connector 26), and layer 22 may be pre-shaped and formed from semi-cured silicone. Once the connector 26, cover 24, and layer 22 are placed together appropriately, the entire member 19 may be heated to heat seal and cure each of the three components to one another. Alternatively, for example, the cover 24 only may be made from semi-cured silicone while the connector 26 and layer 22 may be made from fully cured silicone. Once placed together and heated, connector 26 and layer 22 will heat seal to cover 24. Semi-cured silicone may be bought and pre-molded from a manufacturer such as NuSil Technology, for example. Although the method of heat sealing the cover 24, connector 26, and layer 22 to each other is disclosed, it is within the scope of this disclosure to form member 19 by coupling layer 22, cover 24, and connector 26 together by another suitable means such as through the use of adhesives, for example. Further, it is within the scope of this disclosure to provide a member 19 where cover 24 lies adjacent to, but is not coupled to, layer 22.

[0021] As mentioned above, cover 24 is coupled to layer 22 and connector 26 is coupled to cover 24 to form member 19. Cover 24 and layer 22 cooperate to form distinct passageways 72 of member 19 (as shown in Fig. 4) which are defined by channels 56, 58 of layer 22 and bottom surface 68 of cover 24. Passageways 72 are in communication with central area 54 of layer 22 and central area 64 of layer 22 is in communication with port 60 of cover 24 which is in communication with the vacuum and/or irrigation sources 12, 14 via connector 26 and tube 34. Therefore, passageways 72 are in communication with the vacuum and/or irrigation sources 12, 14.

[0022] Layer 22 includes through holes 74 which extend from channels 56, 58 through layer 22 to wound contacting surface 50, as shown in Fig. 2. Holes 74 are distinct and are provided to communicate with channels 56, 58 of layer 22. Holes 74 therefore communicate with passageways 72 of member 19 and the vacuum and/or irrigation sources 12, 14 as well to allow the suction from the vacuum source 12 and/or the fluid from the irrigation source 14 to reach the wound surface 18 via the holes 74. Illustratively, holes 74 are 0.020 inch (0.508 mm) in diameter and are spaced approximately 0.500 inch (12.700 mm) apart along channels 56, 58 of layer 22. It is, however, within the scope of the disclosure to include holes having other suitable sized diameters and/or other suitable spacing that allow for the removal of exudate without clogging.

[0023] Illustrative member 19 of bandage 10 includes a smooth wound contacting surface 50, as shown in Fig. 2. Wound contacting surface 50 may also be ribbed, textured, or roughened. By providing member 19 with a

ribbed, textured, or roughened surface, a space is created between surface 50 of layer 22 and wound surface 18. Through holes 74 communicate with this space which permits vacuum source 12 to establish a generally uniformly distributed vacuum or negative pressure to the wound surface 18 to draw blood from the body to the wound surface 18 and to draw exudate from the wound 16 through holes 74, into channels 56, 58 and passageways 72, and out port 60 of cover 24. It is within the scope of this disclosure to include other means for providing a space between surface 50 and wound surface 18 such as providing ribs, protrusions, channels, spacers, etc.

[0024] The vacuum or negative pressure which draws blood from the body to the wound surface 18 and draws exudate from the wound 16 up through member 19 promotes the healing of wound 16. As wound 16 heals, granulations form along the wound surface 18. Granulations, therefore, are the replacement within the wound bed of tissue lost. As the granulations fill in the wound bed causing the wound 16 to heal, member 19 rides up on the wound surface 18 on top of the granulations which are formed.

[0025] Although illustrative bandage 10 includes one central port 60, it is within the scope of this disclosure to include multiple ports. In order to accommodate different sized wounds 16, member 19 may be trimmed to fit a particular wound 16. Further, some embodiments of member 19 include scale markings. Scale markings indicate areas where a caregiver may trim member 19 to fit a particular wound 16. Further, the scale markings may denote measurement sizes, for example, to permit a caregiver to cut the member 19 to fit a pre-measured wound 16. In order to accommodate various types and placements of wounds on patients, it is within the scope of this disclosure to include a member or members in various conforming shapes and sizes suitable for treating chronic wounds on a patient's heel, abdomen, or sternum, for example.

[0026] A switch valve 76 is illustratively provided, as shown in Fig. 1, to allow a user to switch between the use of the vacuum source 12 and the irrigation source 14. It will be appreciated that a mechanism other than the switch valve 76 may be used selectively to couple the vacuum source or the irrigation source to the bandage. Simple tube clamps, for example, may be used selectively to open and close the tube set provided with bandage 10. When valve 76 is switched to operate the vacuum source 12, the vacuum suction draws exudate up through the holes 74 and radially inwardly through passageways 72 toward port 60 and finally through tube 34.

[0027] Vacuum/irrigation tube 34 extends over the edge of packing 30 and out from under the edge of the sealing film 40. In use, irrigation source 14 delivers liquid through tube 34 and port 60 of cover 24 and into passageways 72 of member 19. The fluid moves radially out through passageways 72 to holes 74. The fluid then moves down through holes 74 to impinge on wound sur-

face 18.

[0028] As described above, bandage 10 includes foam packing 30. Foam packing includes a top surface 80 and a bottom surface 82. Illustratively, foam packing 30 is rectangular and sized to match member 19. An adhesive 84 may be attached to bottom surface 82, as shown in Fig. 3. In some embodiments, a silicone-based adhesive is provided on bottom surface 82. Packing 30 may be permanently or temporarily affixed to top surface 80 of member 19 to act as a cavity filler for bandage 10. For example, chronic wounds, such as wound 16, often create a deep cavity. Foam packing 30 is added on top of member 19 to essentially fill the cavity created by the wound. In those embodiments in which packing 30 is temporarily attached to or placed on member 19, packing 30 can be removed and replaced by a caregiver without the need to replace member 19.

[0029] As mentioned above, packing 30 includes aperture 32 which extends from top surface 80 to bottom surface 82. Illustratively, aperture 30 is centrally located to receive connector 26 which is centrally located on cover 24 of member 19. It is within the scope of this disclosure for packing 30 to have an aperture which is not centrally located provided that the aperture cooperates with either a connector of member 19 or with a port of the cover of member 19. As shown in Fig. 4, connector 26 is received within aperture 32 of packing 30. A portion of vacuum tube 34 is also received within aperture 32 and couples with connector 26.

[0030] As shown in Figs. 2 and 3, packing 30 further includes a slit 86. Slit 86 is defined by first and second confronting interior surfaces 90, 92 which each extend from top surface 80 to bottom surface 82 and are each in communication with aperture 32. Surfaces 90, 92 each further extend from aperture 32 to a side wall 88, as shown in Figs. 2 and 3. Slit 86 provides an entryway for tube 34. Slit 86 allows packing 30 to be easily removed and replaced from bandage 10 without the need to disconnect tube 34 from connector 26 or port 60. When removing packing 30 from member 19, tube 34 is slid through slit 86 from aperture 32 to side wall 88. When placing a new packing 30 on member 19, tube 34 is slid through slit 86 from side wall 88 to aperture 32 to rest one end of tube 34 within aperture 32. Because packing 30 is replaceable separately from member 19, member 19 is able to stay in place on wound surface 18 for a longer period of time.

[0031] In an alternative embodiment shown in Figs. 5 and 6, a horizontal connector 126 is coupled to cover 24. Horizontal connector 126 includes a vertical passageway 127 connected to a horizontal passageway 129. Horizontal connector 126 provides for a horizontal attachment for vacuum tube 34, rather than the vertical attachment shown in Figs. 2 and 4. Horizontal connector 126 is coupled to cover 24 in the same manner as connector 26 and communicates with port 60 of cover 24. When foam packing 30 is coupled to or positioned adjacent to cover 24, as shown in Fig. 6, horizontal member 126 is received

within aperture 32 of packing 30. Further, tube 34 is received wholly or partially within slit 86 of packing when tube 34 is coupled to connector 126.

[0032] It is within the scope of this disclosure for foam packing 30 to be perforated to facilitate customizing the size of the foam to the wound cavity without using scissors. Further, foam packing 30 includes open-cell or closed-cell types of foam. For example, it is within the scope of this disclosure to include foam packing 30 made of hydrophobic or hydrophilic polyurethane foam or polyvinylalcohol foam.

[0033] As mentioned above, bandage 10 includes sealing layer or film 40 that is placed over packing 30 and around tube 34, as shown in Figs. 2 and 4. Film 40 may be substantially larger than the wound 16 or member 19 and packing 30 to provide an effective seal about the member 19 and the wound 16. Film 40 is provided to cover the entire wound 16 and to extend across and attach around tube 34 to the patient's healthy skin 42, as shown in Fig. 1. Preferably, film 40 is an occlusive or semi-occlusive material which allows water vapor to permeate through. Because of this characteristic, film 40 is referred to as Moisture Vapor Transmission Rate film or MVTR film. The products TEGADERM® brand sealing film made by 3M Corporation and OPSITE FLEXIGRID® made by Smith & Nephew can be used for film 40, for example. The product OPSITE FLEXIGRID® is a semi-permeable film. Film 40 is approximately 0.003 inch (0.076 mm) thick, however, it is within the scope of this disclosure to include an occlusive or semi-occlusive film 40 having other thickness. Film 40 is provided to create a sealed environment below the film 40 and around the wound 16 in which a vacuum or negative pressure can be maintained as provided by vacuum source 12.

## Claims

1. A vacuum bandage (10) connectable to a vacuum source (12) and provided for use with a wound having a wound surface, the bandage comprising a wound dressing member (19) having a wound contacting surface (50), a top surface (70), characterized by the wound dressing member having a port configured for communication with the vacuum source (12), holes (74) the wound contacting surface (50) configured for communication with a wound surface of the wound, and a passageway (72) between the port (60) and each hole (74), and a pack adjacent to the top surface of the member, the pack including an aperture positioned about the port.
2. The bandage of claim 1, wherein the pack further includes an adhesive layer to attach the pack to the top surface of the wound dressing member.
3. The bandage of claim 2, wherein the member is generally non-compressible and the pack is generally

compressible.

4. The bandage of claim 3, wherein the member is made of a medical grade silicone and the pack is foam-like.
5. The bandage of any one of claims 2 to 4, wherein the pack is removable from the member while the member remains coupled to the vacuum source (12).
6. The bandage (10) of any preceding claim, wherein the pack includes a bottom surface, a top surface, a side wall extending from the top surface to the bottom surface, and a slit in communication with the aperture and extending from the top surface to the bottom surface and from the aperture to the side wall.
7. The bandage (10) of claim 6, wherein the pack is an opened-cell foam.
8. The bandage (10) of claim 6, wherein the pack is a closed-cell foam.
9. The packing of claim 8 as dependent on any one of claims 2 to 5, wherein the adhesive is silicone-based.
10. The bandage (10) of claim 1, wherein the pack is removably coupled to the member.
11. The bandage (10) of any one of claims 1 to 9 further comprising a tube received in the aperture of the foam pack, coupled to the port of the member, and configured to be coupled to the vacuum source, and a sealing film covering the tube, foam pack, and member and configured to coupled to a patient's healthy skin surrounding the wound.
12. The bandage (10) of any preceding claim, wherein the member further includes a connector coupled to a top surface of the member and in communication with the port of the member, and wherein the connector is disposed in the aperture of the packing.

#### Patentansprüche

1. Vakuumverband (10), der an eine Vakuumquelle (12) anschließbar ist und zur Anwendung bei einer Wunde mit einer Wundoberfläche bereitgestellt ist, wobei der Verband Folgendes umfasst: ein Wundauflegelement (19) mit einer die Wunde kontaktierenden Oberfläche (50), eine Oberseite (70), dadurch gekennzeichnet, dass das Wundauflegelement eine zur Kommunikation mit der Vakuumquelle (12) konfigurierte Anschlussstelle aufweist, Löcher (74) in der die Wunde kontaktierenden Oberfläche (50), die zur Kommunikation mit einer Wundoberfläche der Wunde konfiguriert sind und ei-

nen Durchgang (72) zwischen der Anschlussstelle (60) und jedem Loch (74), und eine an die Oberseite des Elements angrenzende Packung, wobei die Packung eine um die Anschlussstelle herum positionierte Öffnung einschließt.

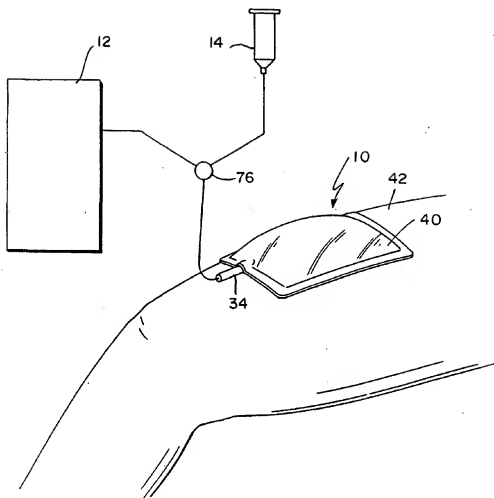
2. Verband nach Anspruch 1, worin die Packung weiter eine Klebeschicht zur Befestigung der Packung auf der Oberseite des Wundauflegelements einschließt.
3. Verband nach Anspruch 2, worin das Element im Allgemeinen nicht komprimierbar ist und die Packung im Allgemeinen komprimierbar ist.
4. Verband nach Anspruch 3, worin das Element aus einem Silikon von medizinischer Güte hergestellt wird und die Packung schaumstoffartig ist.
5. Verband nach einem der Ansprüche 2 bis 4, worin die Packung vom Element entfernbar ist, während das Element an die Vakuumquelle (12) gekoppelt bleibt.
6. Verband (10) nach einem der vorangehenden Ansprüche, worin die Packung Folgendes einschließt: eine Unterseite, eine Oberseite, eine Seitenwand, die sich von der Oberseite bis zur Unterseite erstreckt, und einen Schlitz, der in Kommunikation mit der Öffnung ist und sich von der Oberseite bis zur Unterseite und von der Öffnung bis zur Seitenwand erstreckt.
7. Verband (10) nach Anspruch 6, worin die Packung einen offenzelligen Schaumstoff darstellt.
8. Verband (10) nach Anspruch 6, worin die Packung einen geschlossenzelligen Schaumstoff darstellt.
9. Packung nach Anspruch 8 wie von einem der Ansprüche 2 bis 5 abhängt, worin der Klebstoff auf Silikon basiert.
10. Verband (10) nach Anspruch 1, worin die Packung entfernbar an das Element gekoppelt ist.
11. Verband (10) nach einem der Ansprüche 1 bis 9, der weiter ein von der Öffnung der Schaumstoffpackung aufgenommenes Rohr umfasst, das an die Anschlussstelle des Elements gekoppelt ist und zum Koppeln an die Vakuumquelle konfiguriert ist, und eine Deckfolie, die das Rohr, die Schaumstoffpackung und das Element bedeckt und zum Koppeln an die die Wunde umgebende gesunde Haut des Patienten konfiguriert ist.
12. Verband (10) nach einem der vorangehenden Ansprüche, worin das Element weiter einen Konnektor

einschließt, der an einer Oberseite des Elements und in Kommunikation mit der Anschlussstelle des Elements gekoppelt ist, und worin der Konnektor in der Öffnung der Packung angeordnet ist.

## Revendications

1. Un bandage sous vide (10) rattachable à une source de vide (12) et destiné à une utilisation avec une plaie présentant une surface de plaie, le bandage comprenant un élément de pansement de plaies (19) présentant une surface en contact avec la plaie (50), une surface supérieure (70) **caractérisée en ce que** l'élément de pansement de plaies comprend un port configuré pour une communication avec la source de vide (12), des orifices (74) dans la surface en contact avec la plaie (50) configurés pour une communication avec une surface de plaie de la plaie et un passage (72) entre le port (60) et chaque orifice (74) et un emballage de pansement adjacent à la surface supérieure de l'élément, l'emballage de pansement comportant une ouverture positionnée vis-à-vis du port.
2. Bandage selon la revendication 1, **caractérisé en ce que** l'emballage de pansement comprend en outre une couche adhésive pour fixer l'emballage à la surface supérieure de l'élément de pansement de plaies.
3. Bandage selon la revendication 2, **caractérisé en ce que** l'élément est généralement non compressible et l'emballage de pansement est généralement compressible.
4. Bandage selon la revendication 3, **caractérisé en ce que** l'élément est constitué d'une silicone de grade médical et l'emballage de pansement est similaire à une mousse.
5. Bandage selon l'une quelconque des revendications 2 à 4, **caractérisé en ce que** l'emballage de pansement est amovible de l'élément tandis que l'élément demeure fixé à la source de vide (12).
6. Bandage (10) selon l'une quelconque des revendications précédentes, **caractérisé en ce que** l'emballage de pansement comporte une surface inférieure, une surface supérieure, une paroi latérale s'étendant de la surface supérieure à la surface inférieure et une fente en communication avec l'ouverture et s'étendant de la surface supérieure à la surface inférieure et de l'ouverture à la paroi latérale.
7. Bandage (10) selon la revendication 6, **caractérisé en ce que** l'emballage de pansement est une mousse à cellules ouvertes.

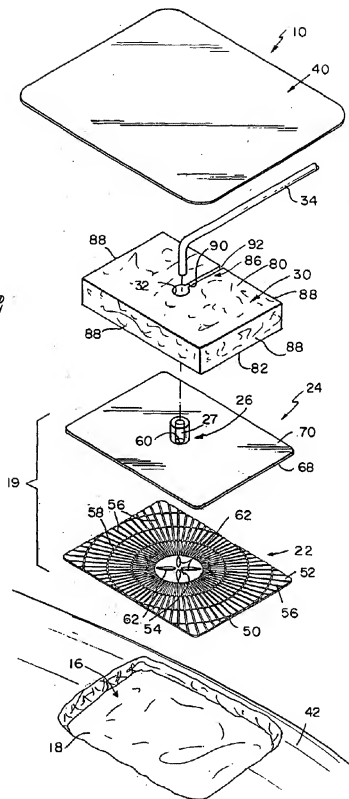
8. Bandage (10) selon la revendication 6, **caractérisé en ce que** l'emballage de pansement est une mousse à cellules fermées.
9. Emballage de pansement (10) selon la revendication 8 en tant que dépendante de l'une quelconque des revendications 2 à 5, **caractérisé en ce que** l'adhésif est à base de silicone.
10. Bandage (10) selon la revendication 1, **caractérisé en ce que** l'emballage de pansement est fixé de manière amovible à l'élément.
11. Bandage (10) selon l'une quelconque des revendications 1 à 9 comprenant en outre un tube passant dans l'ouverture de l'emballage de pansement en mousse, fixé au port de l'élément, et configuré pour être fixé à la source de vide et un film de scellement couvrant le tube, l'emballage de pansement en mousse et le membre et configuré pour être fixé à la peau saine entourant la plaie d'un patient.
12. Bandage (10) selon l'une quelconque des revendications précédentes, **caractérisé en ce que** l'élément comprend en outre un connecteur fixé à une surface supérieure de l'élément et en communication avec le port du membre et **en ce que** le connecteur est disposé dans l'ouverture de l'emballage de pansement.



*FIG 1*



FIG. 2



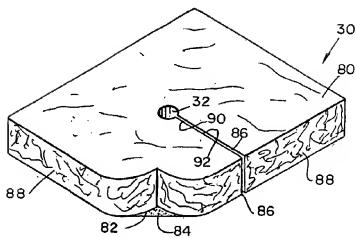


FIG. 3

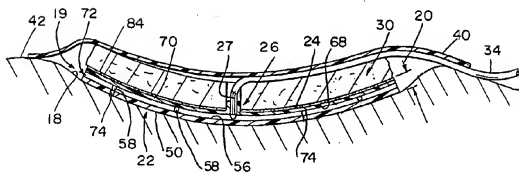
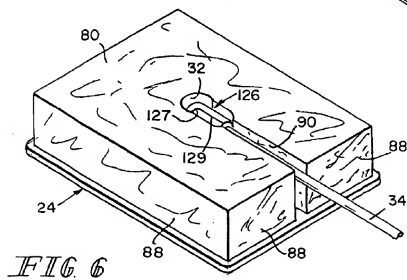
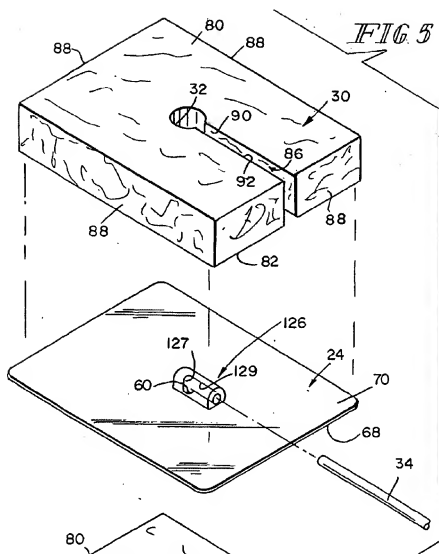


FIG. 4



REFERENCES CITED IN THE DESCRIPTION

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